

Appl. No. 10/086,554
Amendment dated June 21, 2004
Reply to Office Action of April 5, 2004

Amendments to the Claims:

Claims 1 and 6 are amended, and claims 2-5 and 8-35 are canceled by this amendment, or were canceled previously.

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

Claim 1. (currently amended) A compact, continuous-flow distillation system, comprising:

a housing;

a double-container boiler vessel in said housing for receiving water to be distilled, said boiler vessel including an outer container having an inlet port for receiving said water to be distilled, an inner container within and spaced from said outer container to form a preheated region between the containers for receiving water from said inlet port, and an inner container inlet port for supplying water from said preheated region to said inner container;

a heater for boiling water in said vessel to produce water vapor in said vessel;

a controller connected to said heater for regulating the operation of the heater;

a condenser in said housing connected to said vessel to receive and condense said water vapor to provide distilled water;

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a storage tank in said housing connected to said condenser for receiving and storing distilled water;

means in said housing for dispensing said distilled water; and

a noninvasive sensor for controlling the level of water in said boiler vessel, wherein said sensor includes a sensor housing, said housing being located outside said boiler vessel and the interior of said sensor housing being in fluid connection with the interior of said boiler vessel[.], wherein said double container boiler vessel further includes a cover for closing said boiler vessel, said cover supporting said heater in said inner container for heating water in said inner container and in said preheated region, wherein said inner container is removably supported in said outer container.

Claims 2-5. (canceled)

Claim 6. (currently amended) The system of claim 5, wherein said cover is removable to provide access to and removable removal of said inner container.

Claim 7. (original) The system of claim 6, further including a drain port for said outer container.

Claims 8-35. (canceled)